Soudaflex 20LM

Technical data

Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 40 min
Curing speed * (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	29 ± 5 Shore A
Density	1,24 g/ml
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion	± 25 %
Max. tension (ISO 37)**	1,16 N/mm²
Elasticity modulus 100% (ISO 37)**	0,60 N/mm²
Elongation at break (ISO 37)**	> 800 %
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 40 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudaflex 20LM is a high quality, elastic, 1-component sealant based on polyurethane.

Properties

- Very easy to apply
- Permanently elastic after curing
- Low modulus
- No bubble formation within sealant in high temperature and humidity applications.
- Very good adhesion on many materials
- Excellent resistance to UV radiation
- Excellent resistance to many chemicals
- Paintable

Applications

- All usual building joints with high movement.
- Connection joints between window- and doorframes and walls.
- Expansion joints between many different construction materials.
- Joints with large movement.

Packaging

Colour: dark grey, basalt grey, medium grey, RAL7022 (umbra grey), black, white, dark beige, maroon
Packaging: 600 ml sausage

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Resistant to intermittent exposure to salt water, detergents, fuels, oils, weak acids and bases (preliminary test required). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, brick, concrete, metals, ...
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: Soudaflex 20LM has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-

loaded joints, we recommend to follow a pre-treatment procedure. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). Apply Primer 100 on porous substrates. Always use Primer 100 on natural stone.
There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions
Min. width for joints: 5 mm
Max. width for joints: 40 mm
Min. depth for joints: 5 mm
Recommendation sealing jobs: joint width = 2 x joint depth.

Application method
Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaflex 20LM evenly without air inclusions into the joint. Smoothen the joint with a finger or a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).
Application method: With a manual, pneumatic or accu caulking gun.
Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use Cured Soudaflex 20LM can only be removed mechanically.
Finishing: With a soapy solution or Soudal Finishing Solution before skinning.
Repair: With the same material.

Health- and Safety Recommendations
Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks
- Soudaflex 20LM is paintable with most waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before appication.
- Soudaflex 20LM has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- Do not apply or allow to cure in the presence of uncured silicone sealants, alcohol - or other solvent cleaners.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.
- Do not use in applications where continuous water immersion is possible.
- Not suitable for bonding aquariums.
- Do not use on polycarbonate.
- Soudaflex 20LM can not be used as a glazing sealant.
- Do not use on natural stones like marble, granite,...(staining).

Standards and certificates
- Meets ASTM C-920 Type S, Grade NS Class 35, Use T,NT, A, and M
- Complies with ISO 11600 F 25 LM

Environmental clauses
Leed regulation:
Soudaflex 20LM conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

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Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.